GREENEST CITY ACTION PLAN Past, Present, and Future // June 23, 2015





OBJECTIVE

Update Council on:

Past

Progress implementing the Greenest City Action Plan since 2011

Present

Draft Short-Term Actions to 2020 **Future** 2050 Priorities



GREENEST CITY FRAMEWORK

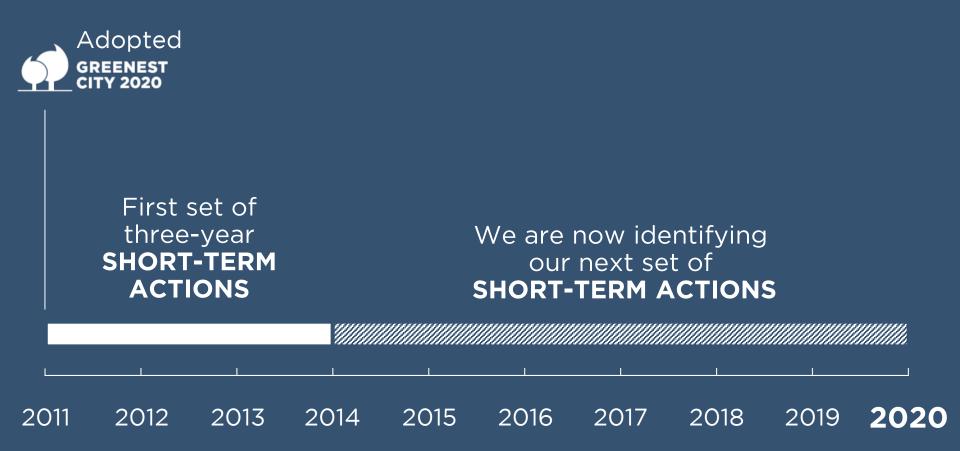




ZERO CARBON	Climate Leadership		
	Green Transportation		
	Green Buildings		F
ZERO WASTE	Zero Waste	Green Eco	.ighter Fo
HEALTHY ECOSYSTEMS	Access to Nature	mom	otprin
	Clean Water	N	int
	Local Food		
	Clean Air		



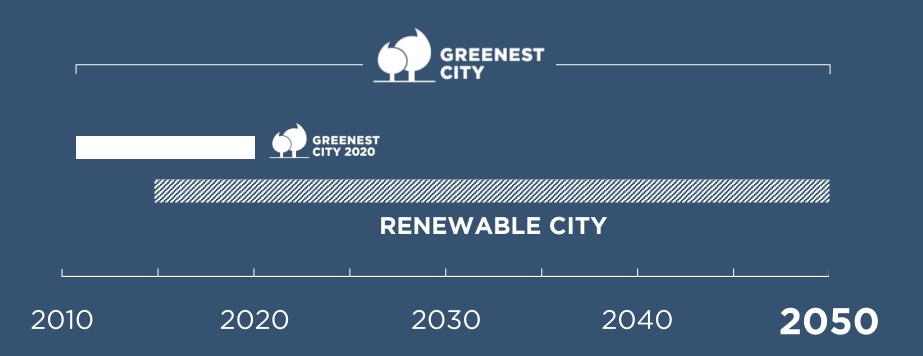
PAST AND PRESENT: SHORT-TERM ACTIONS





2020 AND BEYOND

In March 2015, City Council renewed its commitment beyond 2020 to **a renewable future**.



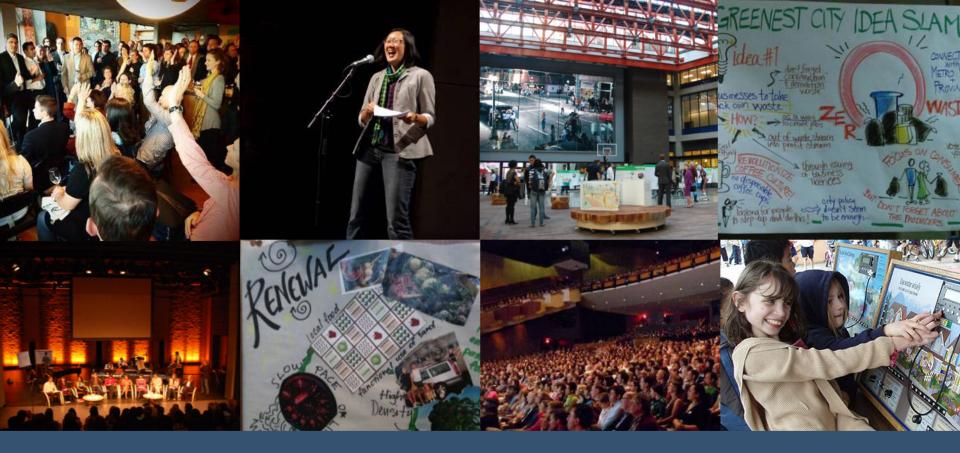


CONSULTATION

Consultation on our **SHORT-TERM ACTIONS** for the next four years runs from Sept 2014 to Sept 2015.







GREENEST CITY PUBLIC ENGAGEMENT



RESULTS TO DATE AND FUTURE STRATEGIES

ZERO CARBON	Climate Leadership	
	Green Transportation	
	Green Buildings	
	Zero Waste	
HEALTHY ECOSYSTEMS	Access to Nature	
	Clean Water	
	Local Food	
	Clean Air	



CLIMATE LEADERSHIP

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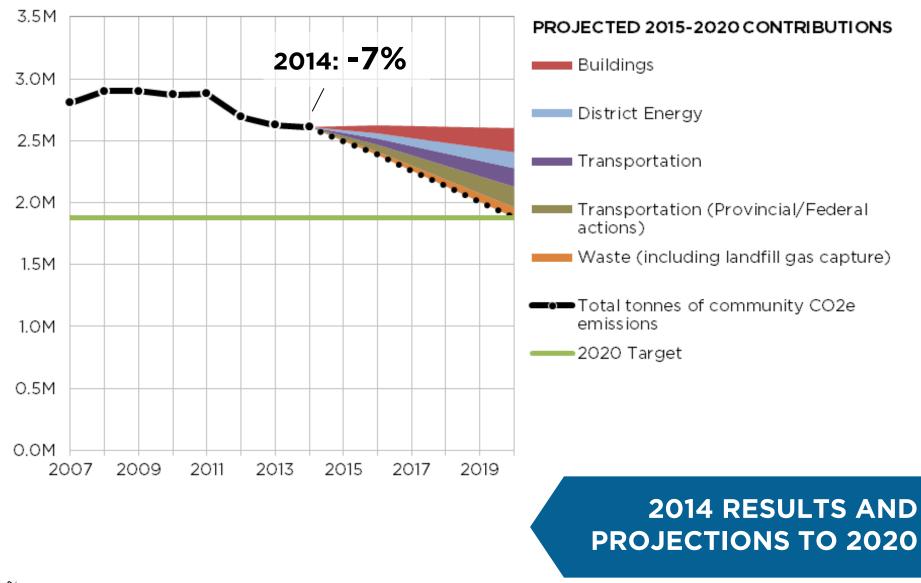
GOAL: Eliminate Vancouver's dependence on fossil fuels

2020 TARGET

Reduce community-based greenhouse gas emissions 33 per cent from 2007 levels



TONNES OF COMMUNITY CO₂e EMISSIONS





CLIMATE LEADERSHIP

GOAL: Eliminate Vancouver's dependence on fossil fuels

Reduce community-based greenhouse gas emissions 80 per cent from 2007 levels

JEST

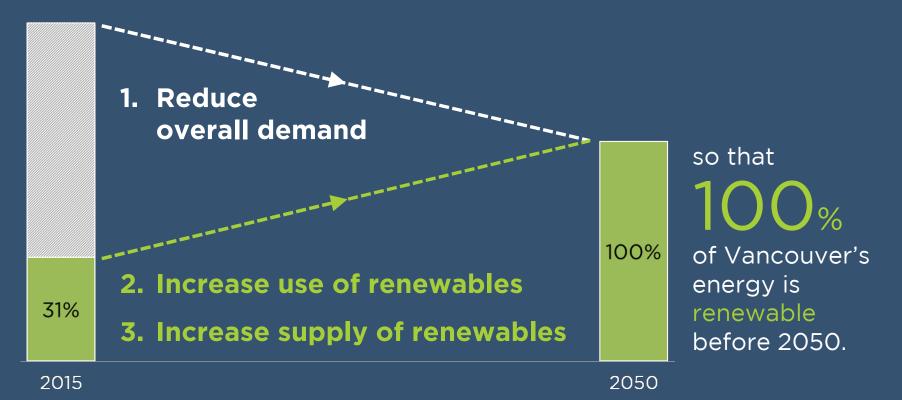
Derive 100% of the energy used in Vancouver from renewable sources

2050 TARGETS

OUR PATH TO A RENEWABLE CITY

31% of Vancouver's energy is already renewable.

We will be taking action to:





CARBON NEUTRAL CITIES ALLIANCE





As with Greenest City, Renewable City goals will rely on collaboration with business, government and the public.

CITY INFLUENCE OVER RENEWABLE CITY Climate Leadership Green Buildings

CITY-LED POLICY, PROGRAMS, REGULATIONS and FINANCIAL CAPACITY

Green Transport Zero Waste



GREENEST CITY FRAMEWORK

	REVISED			
ZERO CARBON	Green Buildings	-		
	Green Transportation	Clir Ren		
ZERO WASTE	Zero Waste	nate & ewables	Green Ec	
HEALTHY	Access to Nature		cond	
	Clean Water		pmy	

Local Food

Clean Air



ECOSYSTEMS

Lighter Footprint

GREEN BUILDINGS

GOAL: Lead the world in green building design and construction

2020 TARGETS

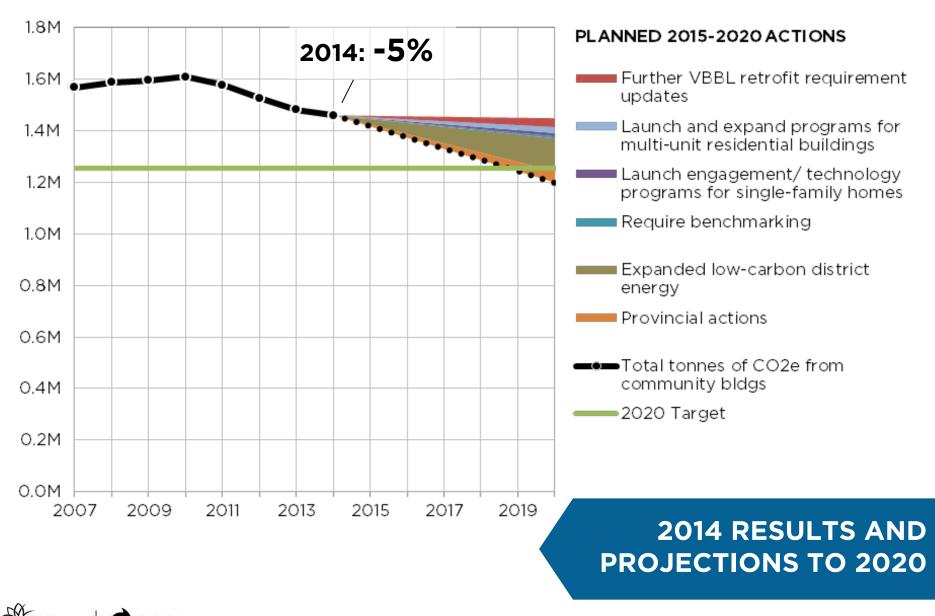
Require all buildings constructed from 2020 to be carbon neutral in operations Reduce energy use and greenhouse gas emissions in existing buildings by 20% over 2007 levels



TONNES OF COMMUNITY BUILDING CO₂e EMISSIONS

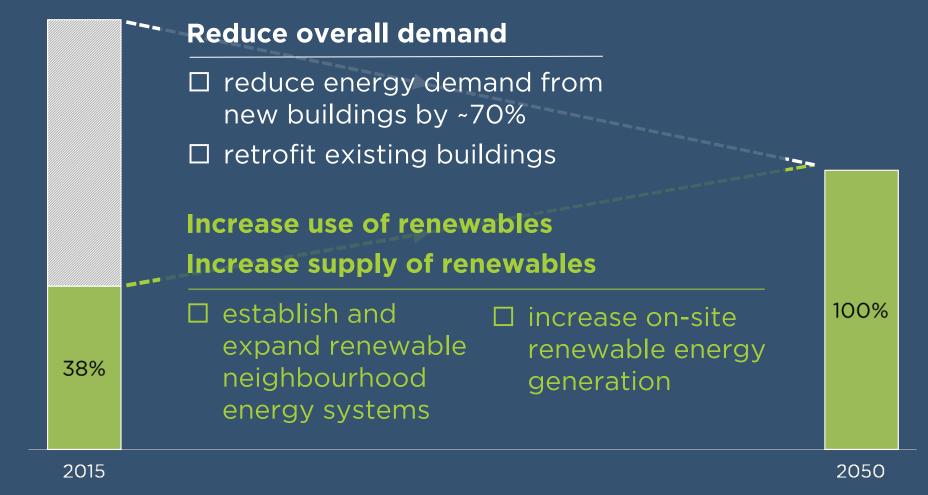
GREENEST

NCOUVER



OUR PATH TO A RENEWABLE CITY

We will be taking action to:



GREEN BUILDINGS 18

GREEN BUILDINGS

GREEN TRANSPORTATION

GOAL: Make walking, cycling, and public transit preferred options



Majority (>50%) of trips by foot, bicycle and public transit

REENEST

NCOUVER

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Reduce average distance driven per resident by 20% from 2007 levels

PLANNED 2015-2020 ACTIONS

Initiate extension of Millennium Line SkyTrain under Broadway to Arbutus

2 Improve walking and cycling infrastructure on False Creek bridges

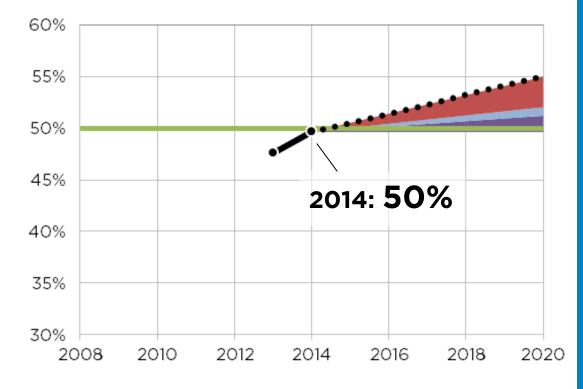
> (e.g., Burrard-Pacific intersection)

Implement a Bike Sharing Program

2014 RESULTS AND PROJECTIONS TO 2020

3

% MODE SHARE BY WALK, BIKE, TRANSIT

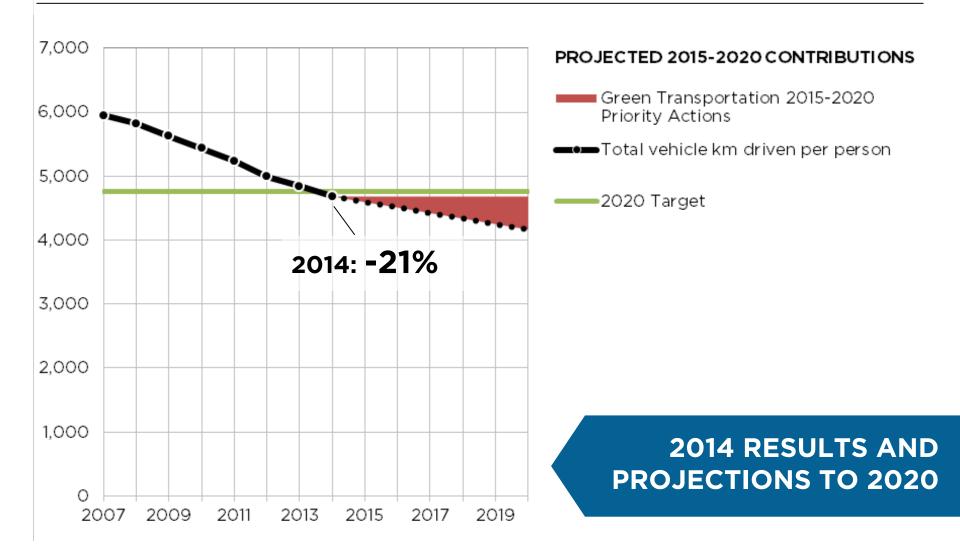


PROJECTED 2015-2020 CONTRIBUTIONS

- Transit trip increase
- Walk trip increase
- 🗖 Bike trip increase
- ━━━% mode share by walk, bike and transit
- 2020 Target



TOTAL VEHICLE KILOMETRES DRIVEN PER PERSON





OUR PATH TO A RENEWABLE CITY

We will be taking action to:



GREEN TRANSPORTATION

RESULTS TO DATE AND FUTURE STRATEGIES

	Climate Leadership	
	Green Transportation	
	Green Buildings	
ZERO WASTE	Zero Waste	
HEALTHY ECOSYSTEMS	Access to Nature	
	Clean Water	
	Local Food	
	Clean Air	



ZERO WASTE *GOAL:* Create zero waste

RECYCLE

2020 TARGET

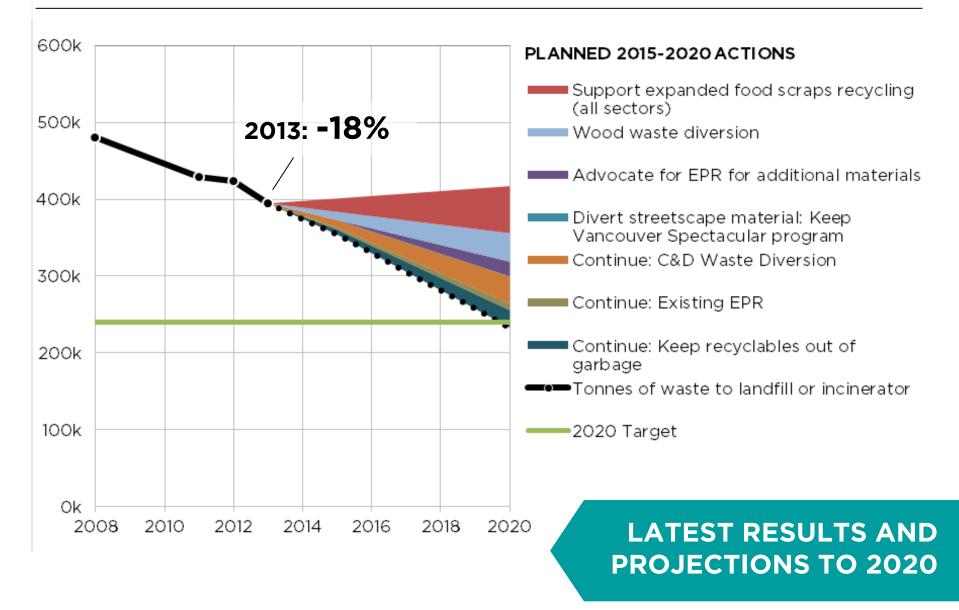
VOLUNTEER

Pelebrata

GREENEST

Reduce total solid waste going to landfill or incinerator by 50% from 2008 levels

TONNES OF WASTE TO LANDFILL/INCINERATOR





OUR PATH TO A RENEWABLE CITY

ZERO WASTE

We will be taking action to:

Reduce overall demand

 ensure reuse/repurposing, to minimize energy used for processing

Increase use of renewables

ensure transport vehicles
use renewable energy

Increase supply of renewables

□ capture and use biomethane



RESULTS TO DATE AND FUTURE STRATEGIES

	Climate Leadership	
	Green Transportation	
	Green Buildings	
	Zero Waste	
HEALTHY ECOSYSTEMS	Access to Nature	
	Clean Water	
	Local Food	
	Clean Air	



ACCESS TO NATURE

GOAL: Vancouver residents enjoy incomparable access to green spaces



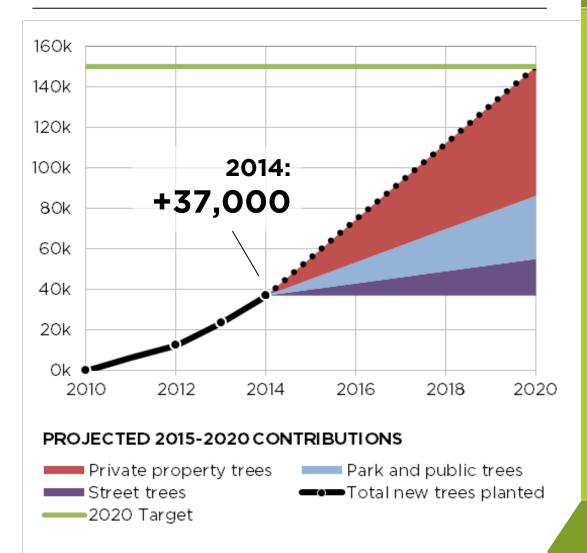
Ensure every Vancouver resident lives within a five-minute walk of a park, beach, greenway or other natural space

COUVER

Plant 150,000 additional trees in the city between 2010 and 2020

TOTAL NEW TREES PLANTED

COLIVER



PLANNED 2015-2020 ACTIONS

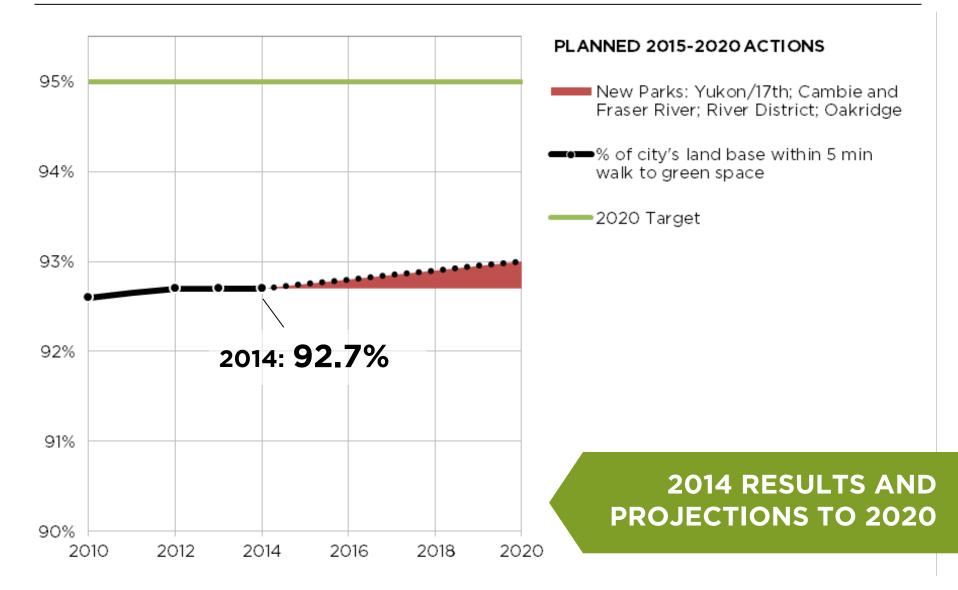
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- Strategically expand tree planting
- 2 New inventory system for trees on City land
 - Update tree management plans, planting standards and best practices
- 4 Develop policies to retain more healthy, mature trees

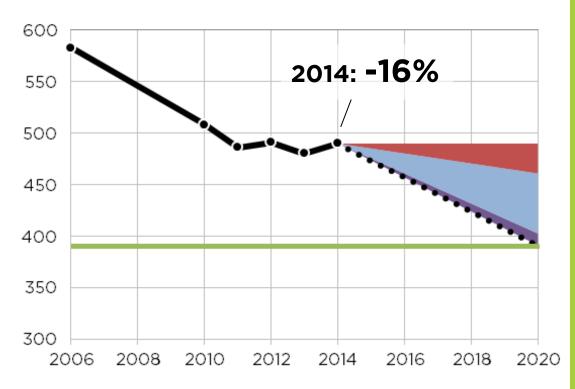
2014 RESULTS AND PROJECTIONS TO 2020

% OF CITY'S LAND BASE WITHIN 5 MIN WALK TO GREEN SPACE





TOTAL WATER CONSUMPTION PER CAPITA



PLANNED 2015-2020 ACTIONS

- Reduce water consumption in ICI sector
- Reduce water consumption in residential sector
- Water system losses and management; civic uses
- Total water consumption per capita (L/person/day)
 - —2020 Target



CLEAN WATER

GOAL Vancouver will have the best drinking water of any city in the world

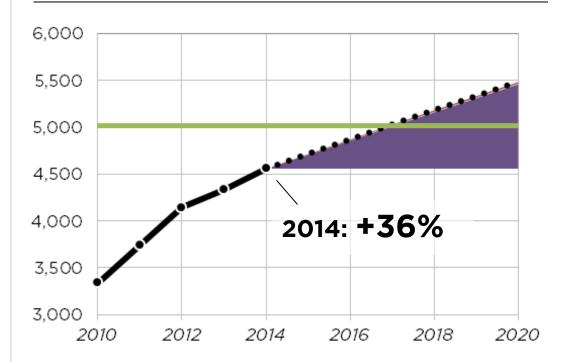
2020 TARGET

Reduce per capita water consumption by 33% over 2006 levels

2014 RESULTS AND PROJECTIONS TO 2020

CLEAN WATER 31

NUMBER OF NEIGHBOURHOOD FOOD ASSETS



PLANNED 2015-2020 ACTIONS

- Urban Farming Policy
- Farmers markets and community food markets
- Urban agriculture and community kitchens
 - 💻 Food Bank
- Number of neighbourhood food assets
 - —2020 Target



LOCAL FOOD

GOAL Vancouver will become a global leader in urban food systems

2020 TARGET

Increase city-wide and neighbourhood food assets by a minimum of 50% over 2010 levels

2014 RESULTS AND PROJECTIONS TO 2020

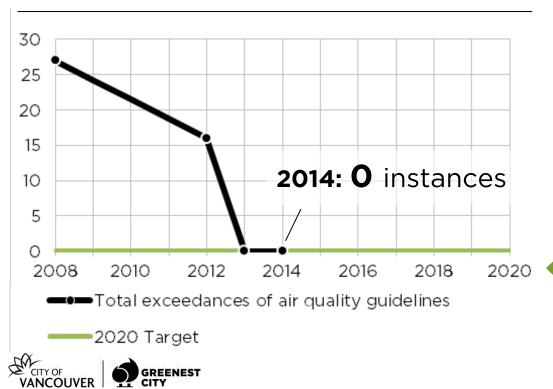
LOCAL FOOD 32

PLANNED 2015-2020 ACTIONS

Develop electric vehicle infrastructure strategy

- 2 Investigate labeling gas pumps for air quality impacts
- 3 Ensure air quality data and information is available

TOTAL EXCEEDANCES OF AIR QUALITY GUIDELINES



CLEAN AIR

GOAL Breathe the cleanest air of any major city in the world

2020 TARGET

Meet or beat the most stringent air quality guidelines from Metro Vancouver, British Columbia, Canada, and the World Health Organization

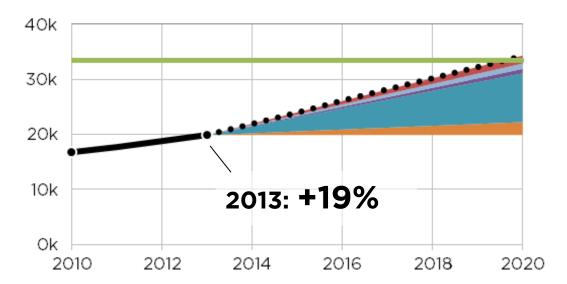
2014 RESULTS

RESULTS TO DATE AND FUTURE STRATEGIES

ZERO CARBON	Climate Leadership		
	Green Transportation		
	Green Buildings		
ZERO WASTE	Zero Waste	Green Ecc	Lighter Footprint
HEALTHY ECOSYSTEMS	Access to Nature	conomy	otpr
	Clean Water	ny	int
	Local Food		
	Clean Air		



NUMBER OF GREEN/LOCAL FOOD JOBS



PROJECTED 2015-2020 CONTRIBUTIONS

- City-led actions (retrofit programs, district energy)
- VEC-led actions (GDDP, cleantech accelerator, False Creek Flats, trade missions) Other actions (organics ban, EPR, etc.)
- Market transformation
 - Business-as-usual business growth
- —•—Number of local food and green jobs
 - 2020 Target

LATEST RESULTS AND PROJECTIONS TO 2020



GREEN ECONOMY

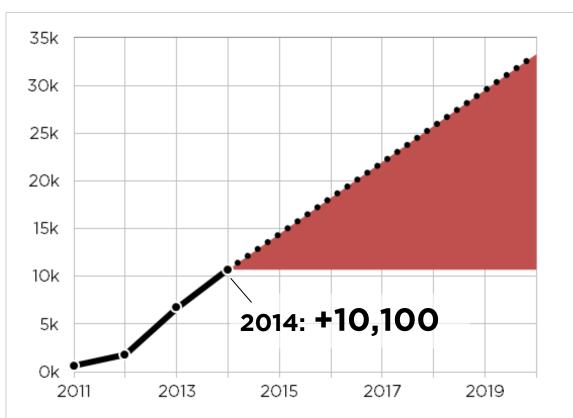
GOAL Secure Vancouver's reputation as a mecca of green enterprise

2020 TARGETS

Double the number of green jobs over 2010 levels by 2020

Double the number of companies that are actively engaged in greening their operations over 2011 levels by 2020

NUMBER OF PEOPLE EMPOWERED BY CITY-LED OR SUPPORTED PROJECT



PLANNED 2015-2020 ACTIONS

- Continue/improve Greenest City Grants and City Studio Programs
- Number of people empowered by City-led or supported project

LIGHTER FOOTPRINT

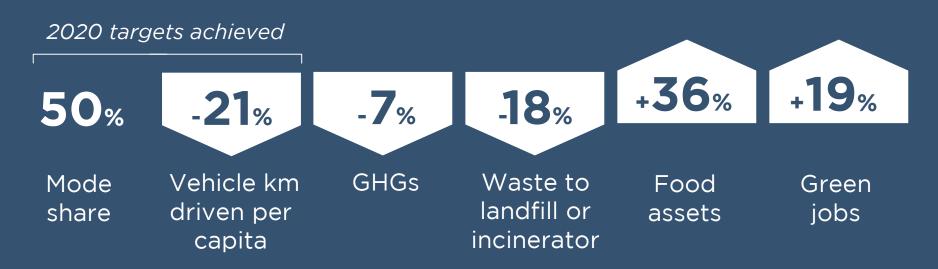
GOAL Achieve a one-planet ecological footprint

2020 TARGET

Reduce Vancouver's per-capita footprint by 33% from 2006 levels

2014 RESULTS AND PROJECTIONS TO 2020

POSITIVE RESULTS SINCE 2011



Two-time winner of Earth Hour City Challenge:

Global Capital 2013 Canadian Capital 2015

Continuing areas of focus: accelerating GHG reductions reducing water consumption greening businesses



PUBLIC ENGAGEMENT for GCAP and Renewable City, online and in person	June to October
GREENEST CITY STRATEGY to Council	Fall 2015
RENEWABLE CITY STRATEGY to Council	Fall 2015



SUMMARY

Significant progress has been made to date, with much more work to do.

JOIN US!

Join us on June 30th and at events throughout the summer to plan the next wave of action to get us to our 2020 targets and to build the Renewable City.

vancouver.ca/greenestcity greenestcitystories.ca



